No.



8500022

TO ALL TO WHOM THESE PRESENTS SHALL COME;

King Grain U.S.A., Inc.

Colhereus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PHANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF CIGHTEEN THATS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND TERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT HETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT AT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'KG30'

In Testimony Whereot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C.

28th day of February the year of our Lord one thousand nine

hundred and eighty-six.

	TOF AGRICULT			APPROVAL EXPIRES 4-30-65 APPROVED: OMB NO, 0681-0066
AGRICULTURAL M LIVESTOCK, MEAY, G			Applica If a pla	ation is required in order to determine at variety protection certificate is to
APPLICATION FOR PLANT VAR	IETY PROTE	CTION CERTIFICATE	be lesu held c	ed (7 U.S.C. 2421). Information is onfidential until certificate is issued .C. 2426).
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNAT	ION 3. VA	RIETY NAME
King Grain U.S.A., Inc.		KG2114		KG30
4. ADDRESS (Street and No. or R.F.D. No., City, St.	ete, end Zip Code)	5. PHONE (Include area code)	even	FOR OFFICIAL USE ONLY
719 Center St., East Aurora, N.Y. 14052, 1	u.s.A.	(716)655-1310		8500022
6. GENUS AND SPECIES NAME	7. FAMILY NA	AME (Botanical)		DATE
Clusina nav	Logum	ui nogao	FILING	12/3/84
Glycine max	<u> </u>	inosae		2:30 A.M. XXP.M.
8. KIND NAME	g	DATE OF DETERMINATION	1	s 1,800
Soybeans	1	1979	RECEIVED	DATE
10. IF THE APPLICANT NAMED IS NOT A "PERS	ON." GIVE FOR	ON " GIVE FORM OF ORGANIZATION (Corpor		12/3/84 AMOUNT FOR CERTIFICATE
partnership, association, etc.) Corporation			FEES	S DAYE
11. IF INCORPORATED, GIVE STATE OF INCOR			12	DATE OF INCORPORATION
New York	FORZION		'**	December 10, 1982.
210 Kinblewick Dr., Silver Spring, MD 20904,	U.S.A.	re.	lex: 2	296415
14. CHECK APPROPRIATE BOX FOR EACH ATT		•		
Exhibit A, Origin and Breeding History of	the Variety (Sec	Exhibit C, Obj	ective Descri icty Protecti	ption of the Variety (Request form on Office.)
Section 52 of the Plant Variety Protection				
b. X Exhibit B, Novelty Statement		d. Exhibit D. Ad	ditional Desc	ription of the Variety
b. X Exhibit B, Novelty Statement 15. DOES THE APPLICANT(S) SPECIFY THAT SI	EED OF THIS VA	RIETY BE SOLO BY VARIET	Y NAME ON	LY AS A CLASS OF CERTIFIED
b. X Exhibit B, Novelty Statement 15. DOES THE APPLICANT(S) SPECIFY THAT SI SEED? (See Section 83(s) of the Plant Variety 16. DOES THE APPLICANT(S) SPECIFY THAT T	EED OF THIS VA Protection Act.) HIS VARIETY BE	RIETY BE SOLD BY VARIET Yes (If "Yes," 17. IF "YES" TO ITE	Y NAME ON answer item	
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b. X Exhibit B, Novelty Statement 15. DOES THE APPLICANT(S) SPECIFY THAT SI SEED? (See Section \$3(a) of the Plant Variety 16. DOES THE APPLICANT(S) SPECIFY THAT T LIMITED AS TO NUMBER OF GENERATION Yes X No 18. DIO THE APPLICANT(S) FILE FOR PROTECT 19. HAS THE VARIETY BEEN OFFERED FOR 8 20. The applicant(s) declare(s) that a viable so plenished upon request in accordance with The undersigned applicant(s) is (are) the o	EED OF THIS VA Protection Act.) HIS VARIETY BE IS? TION OF THE VA ALE OR MARKE Imple of basic se h such regulation owner(s) of this	TED IN THE U.S. OR OTHER reds of this variety will be fins as may be applicable, sexually reproduced novel and is entitled to protection to	Y NAME ON answer items IM 16, WHICE SEED? COUNTRIE Traished with plant variety ander the p	RELY AS A CLASS OF CERTIFIED IS 16 and 17 below) EH CLASSES OF PRODUCTION Registered Certific Yes (If "Yes," give X No ST Yes (If "Yes," give of countries and do X No th the application and will be y, and believe(s) that the varie rovisions of Section 42 of the

EXHIBIT 'A'

Origin and Breeding History of the Variety

- 1) KG30 (KG2114) was developed by King Grain Limited, Chatham, Ontario. The variety originated from a hand-pollinated cross of Maple Arrow x SA198 made in 1977. The F1, F2 and F5 generations were grown in Ontario and the F3 and F4 grown in Belize, Central America. Early generations were advanced using a modified single seed descent technique. KG30 was F5 derived and was yield tested in 1982-83.
- 2) In 1979, single plants of the variety were reselected and grown in plant rows in 1980. Only the rows conforming to a standard were harvested and bulked. The genetic make-up of the variety was uniform and stable in the eighth generation.
- 3) KG30 has been in yield trials since 1982. See attached.

KING 2114

ONTARIO SOYBEAN VARIETY TEST 2600 H.U. 2 YEAR MEANS

VARIETY	YR/LOC	YIELI) RK	100 SEED WT(g)
KING 2114	82/OT	2560	8	14.6
KING 2114	82/KC	3576	3	13.9
KING 2114	82/EL	2825	9	10.8
KING 2114	82/BR	243,9	9	11.9
KING 2114	83/OT	2703	7	16.0
KING 2114	83/KC	2028	19	14.0
KING 2114	83/EL	2556	4	17.0
KING 2114	83/BR	3070	11	20.5
KING 2114	PRIVATE	3466		20.5
KING 2114	MEAN	2803		14.8
MAPLE ARROW	82/OT	2040		
MAPLE ARROW	82/KC	2840 3264	2	19.3
MAPLE ARROW	82/KC 82/EL	2885	10 6	17.0
MAPLE ARROW	82/BR	2614	3	14.7
MAPLE ARROW	83/OT	2328	21	15.1
MAPLE ARROW	83/KC	1557	28	17.0
MAPLE ARROW	83/EL	2311	18	16.0 20.3
MAPLE ARROW	83/BR	3275	4	23.0
MAPLE ARROW	PRIVATE	3516	7	23.0,
MAPLE ARROW (CHECK) MEAN	2732		17.8
РНҮТОРНТНОКА	FIELD TOLE	RANCE	(%PLANT LOS	ss)
	1982	1983	MEAN	
KING 2114	18.0	23.0		
Amsoy 71	34.5	45.0	20.5	:
Maple Arrow	15.0	28.0	38.0 21.5	
•	Maria Carantel Control			

Western Soybean Trials 1982-83 Summary.

Variety / Location	Yield (kg/ha)	Plant Height ((cm)
KG2114		
Winnipeg Brandon Lethbridge Brooks X	1672 2517 3609 3032 2708	80 91 67 <u>66</u> 76
Maple Arrow		
Winnipeg Brandon Lethbridge Brooks X	1403 1946 2300 2252 1975	77 88 55 <u>59</u> 70
<u>McCall</u>		
Winnipeg. Brandon Lethbridge Brooks X	1762 2316 3293 2373 2436	80 87 72 69 77
	•	

Winnipeg	- Dr. P. McVetty,	Plant Science Dept.,
Brandon	- Dr. W.N. Migus,	
Lethbridge	Dr. H. Muendel,	
Brooks	- Dr. R. Gaudiel,	Agriculture Canada. Hort. Research Station, Alberta Dept. of Agriculture

EXHIBIT 'B'

Novelty Statement

Novelty is based on the unique combination of the following characteristics:

'KG30' is most similar to 'Maple Arrow' except KG30 is three grams per 100 seeds lighter, six centimeters shorter, 2.5% higher yielding and has 1% less Phytophthora field tolerance than Maple Arrow.

1982-83 Data Summary

Entry	100 Seed Wt. (gm)	Plant Ht.(cm)	Yield (kg/ha)	Phytophthora Tolerance (% loss)
KG30 (KG2114)	14.8	76	2803	20.5
Maple Arrow	17.8	70	2732	21.5

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20706

OBJECTIVE DESCRIPTION OF VARIETY

	OYBEAN (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATI	ON VARIETY NAME
King Grain U.S.A., Inc.	KG2114	кс30
ADDRESS (Street and No., or R.F.D. No., City, State, and	Zip Code)	FOR OFFICIAL USE ONLY
719 Center St.,		PVPO NUMBER
East Aurora, N.Y. 14052, U.S.A		8500022
Choose the appropriate response which characterizes in your answer is fewer than the number of boxes processes the started characters are considered fundamental to a when information is available.	ovided, place a zero in the first be	ox when number is 9 or less (e.g., 0 9).
1. SEED SHAPE:	(1)	
2	Ŭ, Ŭ	
- -	u T	
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		ned (L/W ratio > 1.2; L/T ratio = < 1.2) ned (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Soed)		
] 1 = Yellow 2 = Green 3 = Brow	- 4 01 4	
1 = Yellow 2 = Green 3 = Brow	n 4 = Black 5 = O	ther (Specify)
R. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
1 Pout Francis Toy In	10 1	
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny	('Nebsoy'; 'Gesoy 17')	
. SEED SIZE: (Meture Seed)		· · · · · · · · · · · · · · · · · · ·
. 5 Grams per 100 seeds		
. HILUM COLOR: (Mature Seed)		
3 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfec	t Black 6 = Black 7 = Other (Specify)
ahayi angula ay		
COTYLEDON COLOR: (Meture Seed)		
1 1 = Yellow 2 = Green	#time	
SEED PROTEIN PEROXIDASE ACTIVITY:		a fire to a water engine of each are selected as a selected of the contract of
2 R/S 3/26/85 1 = Low 2 = High		Commission of the Commission o
		And the second of the second o
SEED PROTEIN ELECTROPHORETIC BAND:	5 16 S.	
if at = Type A (SP(*) 2 = Type B (S	p(b)	A Service of the company of the service of the serv
	A construction of the same and the same of	and the Control of the Control of t
HYPOCOTYL COLOR:		计特性性 100000000000000000000000000000000000
1 = Green only ('Evens'; 'Devis') 2 = Gr 4 - 1 - 3 - Light Purple below cotyledons ('Besson'; 'Picke 4 = Dark Purple extending to unifoliste leaves ('Ho	en with bronze bend below cotyledo	
LEAFLET SHAPE: 3/26/85		· · · · · · · · · · · · · · · · · · ·
	Ovate 4 = Other (Speciful	ELLIPTICAL
FR. C.15. 2156		

11. LEAFLET SIZE:		·	
1 = Small ('Ameoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsay 79'; 'Ge	soy 17")	
12. LEAF COLOR:	·		*************************************
1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gname'; 'Tracy')	2 = Medium Green (*Corsoy 7	9': 'Braxton')	
13. FLOWER COLOR:			
2 1 - White 2 - Purple	3 = White with purple throat	•	
14. POD COLOR:			
2 1 = Tan 2 = Brown 3 =	Black		
15. PLANT PUBESCENCE COLOR:		÷	
2 1 = Gray 2 = Brown (Tewny)			
16. PLANT TYPES:			
1 = Slender ('Essex'; 'Arnsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; '8	raxton*)	
17. PLANT HABIT:			
1 ~ Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican'	2 = Semi-Determinate ('Will')		
18. MATURITY GROUP:			<u> </u>
0 2 1-000 2-00 3-0 9-VI 10-VII 11-VIII	4=1 5=H 6= 12=IX 13=X	- III 7 - IV	8 = V
<u>an ann a sao an </u>	<u>na santa a sa</u>		
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susce BACTERIAL DISEASES:	ntible; 2 = Resistent)		
Bacterial Pustule (Xanthomonas phaseoli ver. so)	ensis)		
Becterial Blight (Pseudomones glycinee)	en e		a the company of
Wildfire (Pseudomonas tabaci)			
FUNGAL DISEASES:			6.1 (See Johnson Committee See Line)
I Brown Spot (Septorie glycines)			angen estas hortes - e palar, angen e
Frogeye Leaf Spot (Cercospore sojina)			
Rece 1 Rece 2 Rece 3	1 Rece 4 - 1	Race 5 Other	Specify)
Terget Spot (Corynespore cassilcola)		and the second s	
Downy Mildew (Peronospore trifoliorum ver: me	shurice)		
Powdery Mildew (Microsphaere diffuse)			
Brown Stem Rot (Caphelosporium gregetum)			
Stem Canker (Diaporthe phaseolorum var. caulivo	m)		

19.	DISEA	SE REACTIO	N: (Enter 0 = Not Tested;	1 = Susceptible; 2 =	Resistant) (Continued)			***	
•	FUN	IGAL DISEA	SES: (Continued)		•					
*	1	Pod and St	m Blight <i>(Diaporthe phase</i>	ólorum var; sojee)			•			
	2	Purple Seed	Stain (Cercospora kikuchi	ij				i de la companya de l		
		Rhizoctonia	Root Rot (Rhizoctonia so	olani)					√ (1,00) ≪ (1,00)	
		Phytophtho	era Rot (Phytophthora meg	asperma var. sojae)					* v	
*	1	Race 1	1 Race 2 1	Race 3	Race 4	1 Race 5	1	ace 6	Race 7	
÷	1	Race 8	1 Race 9	Other (Specify) _						
	VIRA	L DISEASES	::		•					
		Bud Blight (Tobacco Ringspot Virus)						.	
		Yellow Moss	iic (Bean Yellow Mosaic Vi	rus)		•	•			
,*	1	Cowpea Mos	aic (Cowpea Chlorotic Viru	ıs)						
		Pod Mottle (Bean Pod Mottle Virus)		•					
*	1	Seed Mottle	(Soybean Mosaic Virus)							
	NEMA	TODE DISE	ASES:	•		•				
		Soybean Cys	t Nematode <i>(Heterodera gl</i>	ycines)						
*		Race 1	1 Race 2 1	Race 3	Race 4	1 Other (Specify)	• .		
		Lance Nemat	ode (Hoplolaimus Colomb	usl	•			•		
*	1	Southern Ro	ot Knot Nematode (Meloid	logyne incognital						
*	1	Northern Roc	ot Knot Nematode <i>(Meloid</i>	ogyne Hapia)						
İ	==		Knot Nematode (Meloidog	•						
ĺ			natode (Rotylenchulus ren			:			•	-
ĺ	=		ASE NOT ON FORM (Spe	•						
L					•					/
20. Pf	YSIOL	OGICAL RE	SPONSES: (Enter 0 = Not	t Tested; 1 = Suscep	tible; 2 = Re	istant)				
* [ᆜ '	rọn Chlorosis	on Celcareous Soil		· -	<u> </u>		- ··		
. [J . e	ther (Specify	A Mass March				· · · · · · · · · · · · · · · · · · ·			•
21. IN	SECT R	EACTION:	(Enter 0 = Not Tested; 1 =	Susceptible; 2 = Re	sistent)		· · · · · · · · · · · · · · · · · · ·	··	·	
	~		Bootle (Epilachna varivasti	is)						•
	P	otato Leaf H	OPPer (Empossos febas)			e ja				
-[7	ther (Specify	.			.	• • •		e e e e e e e e e e e e e e e e e e e	
2. INC	CATE		RIETY MOST CLOSELY	RESEMBLES THA	T CHOMITT					
	HARA		NAME OF V			RACTER		NAME OF \	ARIFTY	
Plen	t Shape		Maple Arrow		1.0 1.0 27 1.7	at Lucter	Maple	Arrow		
Leaf	Shape		u		Seed Si			# HITOW		
Leaf	Color	4.	u j		Seed St			n .		
Leef	Size	1	u .	:		Pigmentation		и.		:

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23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Compersion Data

	VARIETY	NO. OF PLANT DAYS LODGING			LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
		MATURITY	SCORE HE	HEIGHT CM Width	CM Width	CM Longth	% Protein	% Oil	SEEDS	POD
	Submitted	114	1.5	76	4.0	9	40.9	19.6	14.8	2:8
	Name 5PW miler Variety	114	1.5	70.	6.5	11	40.6	19.3	17.8	2.7

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT E

STATMENT OF THE BASIS OF THE APPLICANT'S OWNERSHIP

SOYBEAN: 'KG 30'

PV No. 8500022.

KING GRAIN, U.S.A., INC.

July 1,1985

The variety for which Plant Variety Protection is sought was developed by Dr. N.R.Bradner an employee of King Grain. By agreement between the stated parties, all rights to the soybean variety 'KG30' were assigned to King Grain and no rights to 'KG30' are retained by the employee.

OL STEINATERING